



Form GSOP 1-PIN (04/98)

STATE OF CALIFORNIA  
Department of General Services - Office of Procurement

**PURCHASE ORDER**

Page 1

Purchase Order No. Rev. Date  
62192 6/30/2008

Supplier No. 803177	Solicitation No. 56965	Delivery Date As Specified	FOB Point Destination	Invoice Terms
<b>S</b> DEPT OF WATER RESOURCES <b>h</b> DIV OPERATIONS & MAINT. <b>i</b> (SEE SPECIFICATIONS FOR <b>p</b> VARIOUS LOCATIONS)		<b>C</b> WATER RESOURCES A-36 <b>h</b> ATTN: ACCOUNTS PAYABLE <b>a</b> PO BOX 942836 <b>t</b> SACRAMENTO CA 94236-001 <b>r</b> <b>o</b> <b>g</b> <b>e</b>		
Agency Billing 81000	Agency Purchase Estimate 6000016281	Purchase Estimate 67053	Revision 1	
Agency Contact BILL MAHON		Phone 916-653-6167	Date Received	

A-Z BUS SALES, INC.  
3418 52ND AVENUE  
SACRAMENTO, CA 95823  
Attn: CHRIS DUTTON

Phone: 916-391-1092

Item No.	Quantity	Unit	Commodity Code	Description	Unit Price	Extension																																																												
<p><b>FURNISH AND INSTALL</b> Installation shall be according to the manufacturer's recommended procedures and shall comply with all California Air Resources Board (CARB) verification requirements.</p> <p>THE GENERAL PROVISIONS FOR NON-IT COMMODITIES ARE HEREBY INCORPORATED BY REFERENCE. THESE GENERAL PROVISIONS CAN BE OBTAINED BY PHONING (916) 375-4400 OR BY ACCESSING OUR WEBSITE AT: <a href="http://www.documents.dgs.ca.gov/pd/modellang/GPnonIT0407.pdf">www.documents.dgs.ca.gov/pd/modellang/GPnonIT0407.pdf</a></p> <p>THE FOLLOWING INFORMATION IS PROVIDED FOR AGENCY USE ONLY: PRIME CONTRACTOR: NS FISCAL YEAR: 2007/2008</p>																																																																		
1	1	EA	4910-000-0009-3	DIESEL EMISSION CONTROL SYSTEM (AS DESCRIBED) "DIESEL EXHAUST PARTICULATE MATTER TRAPS" AS DESCRIBED AND IN ACCORDANCE WITH SPECIFICATION # 2815-0009 OF TWO (2) PAGES, DATED MAY 28, 2008.  <u>ONLY DEVICES VERIFIED BY CALIFORNIA AIR RESOURCES BOARD (CARB) AS LEVEL THREE (3) COMPLIANT FOR THE SPECIFIC ENGINE FAMILY WILL BE ACCEPTABLE.</u>  <u>ALL ITEMS TO BE PROVIDE AS QUOTED ON PRICING WORKSHEET, EXCEPT LINE #5, LINE #5 TO BE PROVIDED AS QUOTED IN THE NOx REDUCTION DEVICE OPTION.</u>	135,748.8800	135,748.88																																																												
				<table border="1"> <thead> <tr> <th>TRUCK ID</th> <th>ENGINE FAMILY</th> <th>PROPOSED BRAND</th> <th>PROPOSED MODEL</th> <th>BID QUOTE</th> </tr> </thead> <tbody> <tr><td>1. 16R001</td><td>2NVXH0444ANC</td><td>CLEARIE</td><td>HORIZON</td><td>\$14,176.47</td></tr> <tr><td>2. 16R025</td><td>YNVXH0444ANC</td><td>CLEARIE</td><td>HORIZON</td><td>14,176.47</td></tr> <tr><td>3. 17R044</td><td>YNVXH0466ANB</td><td>ECS</td><td>PURIFILTER</td><td>10,200.63</td></tr> <tr><td>4. 18R060</td><td>WCFXH0855NAC</td><td>JOHNSON/MATTHEY</td><td>CRT</td><td>11,255.00</td></tr> <tr><td>5. 18R062</td><td>WCEXH0855NAC</td><td>CLEARIE</td><td>LONGVIEW</td><td>21,505.88</td></tr> <tr><td>6. 18R064</td><td>YCPXH0729EBK</td><td>DONALDSON</td><td>DPM</td><td>11,255.00</td></tr> <tr><td>7. 18R065</td><td>YCPXH0629EBK</td><td>DONALDSON</td><td>DPM</td><td>9,363.75</td></tr> <tr><td>8. 18R067</td><td>YCPXH0729EBK</td><td>DONALDSON</td><td>DPM</td><td>11,105.00</td></tr> <tr><td>9. 19R014</td><td>YCPXH0729EBK</td><td>DONALDSON</td><td>DPM</td><td>11,255.00</td></tr> <tr><td>10. 19R015</td><td>YNVXH0530ANA</td><td>ECS</td><td>PURIFILTER</td><td>10,200.63</td></tr> <tr><td>11. 19R016</td><td>YCEXH0855NAE</td><td>DONALDSON</td><td>DPM</td><td>11.255.00</td></tr> </tbody> </table>	TRUCK ID	ENGINE FAMILY	PROPOSED BRAND	PROPOSED MODEL	BID QUOTE	1. 16R001	2NVXH0444ANC	CLEARIE	HORIZON	\$14,176.47	2. 16R025	YNVXH0444ANC	CLEARIE	HORIZON	14,176.47	3. 17R044	YNVXH0466ANB	ECS	PURIFILTER	10,200.63	4. 18R060	WCFXH0855NAC	JOHNSON/MATTHEY	CRT	11,255.00	5. 18R062	WCEXH0855NAC	CLEARIE	LONGVIEW	21,505.88	6. 18R064	YCPXH0729EBK	DONALDSON	DPM	11,255.00	7. 18R065	YCPXH0629EBK	DONALDSON	DPM	9,363.75	8. 18R067	YCPXH0729EBK	DONALDSON	DPM	11,105.00	9. 19R014	YCPXH0729EBK	DONALDSON	DPM	11,255.00	10. 19R015	YNVXH0530ANA	ECS	PURIFILTER	10,200.63	11. 19R016	YCEXH0855NAE	DONALDSON	DPM	11.255.00		
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Sales and/or use tax to be extra unless noted above

Buyer  LONNIE WILLIAMS	Phone 916-375-4586	BOC Number
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**Department of General Services - Office of Procurement**

## Form GSOP 2-PIN (04/98)

Page 2

Item No.	Quantity	Unit	Commodity Code	Description	Unit Price	Extension
Total Value:						135,748.88
<p><u>ATTACHMENTS</u></p> <p>THE FOLLOWING ATTACHED DOCUMENTS ARE PART OF THIS PURCHASE ORDER.</p> <ol style="list-style-type: none"> <li>1. PRICING WORKSHEET</li> <li>2. SPECIFICATIONS # 2815-0009 OF TWO (2) PAGES, DATED MAY 28, 2008.</li> </ol>						
<p><u>F.O.B. DESTINATION</u></p> <p>For the purpose of this order only F.O.B. Destination will be accepted.</p>						
<p><u>DELIVERY REQUIREMENTS</u></p> <p>Delivery and installation shall take place during normal business hours Monday - Friday, from 8:00 AM to 3:30 PM, except State holidays.</p> <p>Delivery shall be to the following locations.</p> <ul style="list-style-type: none"> <li>* Pearblossom, CA</li> <li>* Bakersfield, CA</li> <li>* Byron, CA</li> <li>* Orville, CA</li> <li>* Gustine, CA</li> </ul> <p>Addresses and contact information will be provided at the pre-delivery / installation meeting.</p>						
<p><u>PRE-DELIVERY / INSTALLATION MEETING</u></p> <p>A pre-delivery / installation meeting will be held at the State's facility between suppliers / vendor's representatives, and Department of Water Resources representatives within 15 calendar days after the receipt of the purchase order.</p> <p>This meeting shall be held prior to the start of installation. The purpose of this meeting is to review necessary installation requirements, resolve any questions concerning the installation locations and/or any variations of the engines, or engine families.</p> <p>The agency will discuss with the supplier the opportunity to conduct data logging prior to installation of the DECS. The cost of data logging shall be included in the bid price.</p> <p>This meeting shall take place at no cost to the State. Pre-delivery / installation meeting will be held at State address listed below:</p> <p>Department of Water Resources Fleet Management Office 4201 S. Sabodan St. Bakersfield, CA 93313 Attn: Brian Borlace, Sup.II Phone: (661) 333-0625</p>						
<p><u>INCREASING PURCHASE QUANTITIES</u></p> <p>The State reserves the right to increase the purchase quantity by up to 25% more units within 180 days of bid award date for State Agencies and California Local Government Agencies. The increased quantity purchased shall be at the awarded bid price.</p>						
<p><u>MANUALS, TRAINING, WARRANTY</u></p> <p>MANUALS:</p> <p>The supplier shall provide one manual for each installed system. Generic manuals are not acceptable.</p>						

A-Z

## Pricing Worksheet

Dept.	Engine Family	Verified Filter Options - References Based on Temperature Profiles	Temperature Profiles from Datalog					Proposed Manufacturer	Proposed Model	Bid
			Avg.	240°C min.	260°C min.	280°C min.	300°C min.			
Truck ID	Engine Family	Verified Filter Options - References Based on Temperature Profiles	Avg.	240°C min.	260°C min.	280°C min.	300°C min.	Proposed Manufacturer	Proposed Model	Bid
16R001	2NVXH0444ANAC	Cleaire Horizon, HUSS FS-MK	204° C	33.0%	21.4%	11.0%	5.4%	Cleaire	Horizon	14,176.47
16R025	VNVXH0444ANAC	Cleaire Horizon, HUSS FS-MK	189° C	25.7%	20.4%	16.8%	14.4%	Cleaire	Horizon	14,176.47
17R044	VNVXH0466ANB	Cleaire Longview, Engine Control System (ECS) Purifier	204° C	33.3%	29.8%	25.6%	21.1%	ECS	Purifier	10,200.63
18R060	WCEXH0855NAC	Cleaire Longview Johnson-Matthey (J-M) Reformulated CRT	219° C	45.2%	32.0%	17.9%	9.1%	Johnson-Matthey	CRT	11,255.00
18R062	WCEXH0855NAC	Cleaire Longview	205° C	30.6%	26.3%	22.8%	19.1%	Cleaire	Horizon	14,076.47
18R064	YCPXH0729ERK	Cleaire Longview, J-M EGRT or CRT Donaldson DPM, ECS Purifier	272° C	64.4%	57.1%	48.2%	37.7%	Donaldson	DPM	11,255.00
18R065	YCPXH0629ERK	Cleaire Longview, J-M EGRT or CRT Donaldson DPM, ECS Purifier	246° C	55.6%	46.5%	34.2%	22.8%	Donaldson	DPM	9363.75
18R067	YCPXH0729ERK	Cleaire Longview, J-M EGRT or CRT Donaldson DPM, ECS Purifier	257° C	63.4%	52.9%	35.2%	23.3%	Donaldson	DPM	11,105.00
19R014	YCPXH0729ERK	Cleaire Longview, J-M EGRT or CRT Donaldson DPM, ECS Purifier	249° C	66.1%	56.7%	40.0%	25.1%	Donaldson	DPM	11,255.00
19R015	VNVXH0530ANA	Cleaire Longview Engine Control System Purifier	211° C	33.8%	30.5%	27.0%	24.0%	ECS	Purifier	10,200.63
19R016	YCEXH0855NAE	Cleaire Longview, J-M EGRT or CRT Donaldson DPM	231° C	57.9%	42.9%	19.4%	5.1%	Donaldson	DPM	11,255.00



DEPARTMENT OF WATER RESOURCES

## 1. SCOPE

This specification establishes the requirements to supply and install Diesel Emission Control Systems (DECS) into eleven diesel-powered trucks manufactured from 1988 to 2002 in order to bring the Department's fleet into compliance with Sections 2020, 2022, and 2022.1 of Title 13 of the California Code of Regulations (CCR).

Only Level 3 DECS verified by the California Air Resources Board (CARB) to meet the Best Available Control Technology (BACT) requirements shall be installed. The details of each truck are provided in Table 1 of this document. The verified filter options and the temperature profiles from data logging are provided in Table 2.

### 1.1 DEPARTMENT OF WATER RESOURCES RESPONSIBILITIES

- 1.1.1 Prior to installation, engines must meet the original manufacturer's specifications for emission control and engine performance.
- 1.1.2 Provide access to vehicles on days scheduled for data-logging, installation and testing.

### 1.2 CONTRACTOR RESPONSIBILITIES

- 1.2.1 Temperature profiles from data logging are summarized in Table 2. Contractor shall have the option to conduct additional data logging of engine temperature to support passive filter selection and warranty requirements.
- 1.2.2 Furnish labor, materials, tools and equipment required to install eleven Diesel Emission Control Systems verified to meet the BACT requirements on eleven on-road trucks at six locations throughout California.

## 2. APPLICABLE SPECIFICATIONS / STANDARDS / CODES

Specifications and standards referenced in this document in effect on the opening of the 'Invitation for Bid' form a part of this specification.

The Diesel Emission Control System furnished under these specifications shall conform to all applicable requirements of all Divisions and Chapters of the following publications:

- 1. Federal Motor Vehicle Safety Standards, Federal Highway Safety and DOT.
- 2. California Motor Vehicle Code
- 3. California Code of Regulations (Title 13).
- 4. Current CARB Emission requirements and directives.

## 3. REQUIREMENTS

### 3.1 GENERAL

The trucks are located at one of six of the following cities in California: Oroville, Byron, Sacramento, Santa Nella, Bakersfield, and Pearblossom. The Contractor shall either

install each DECS at a suitable facility within 120 miles of each truck location or travel to the State facility to complete the installation on-site.

### 3.2 SELECTION OF DIESEL EMISSION CONTROL SYSTEM

Based on the exhaust temperature profiles from data logging, the contractor shall install the Best Available Control Technology (BACT) verified to reduce the Diesel Particulate Matter by a minimum of 85% or Level 3 Compliance.

Contractor shall select a passive style particulate filter that is the lowest cost solution. Active devices shall be installed only if the temperature profiles are too low to allow the use of passive filters. If contractor chooses to conduct data logging, it shall be conducted according to the manufacturer's recommended procedures.

### 3.3 DIESEL EMISSION CONTROL SYSTEM LABELS

Each DECS and retrofitted engine shall be labeled in accordance with CCR, Title 13, Section 2706 (g). The label shall include the device manufacturer, family name, serial number, and date installed.

**TABLE 1: Trucks Requiring Diesel Exhaust Particulate Traps**

ID	Location	Truck Description	Engines	HP	Engine Family	Uses
16R001	Pearblossom	Cab & Chassis, Flat Bed	INTERNAT_B235_2002(7.3)	235	2NVXH0444ANC	Transports supplies
16R025	Bakersfield	Cab & Chassis, Service Body	INTERNAT_B235_2000(7.3)	235	YNVXH0444ANC	Shop Mechanic Truck.
17R044	Oroville	Flatbed, Fish Tank	INTERNAT_DT466E_2000	230	YNVXH0466ANB	Transports Fish
18R060	Byron	Cab & Chassis, Dump Body	CUMMINS_N14_1998	370	WCEXH0855NAC	Transport Aggregates
18R062	Byron	Cab & Chassis, Dump Body	CUMMINS_N14_1998	370	WCEXH0855NAC	Transport Aggregates
18R064	Oroville	Cab & Chassis, Dump Body	CAT_C12_2000	410	YCPXH0729ERK	Transport Aggregates
18R065	Bakersfield	Cab & Chassis, Dump Body	CATERPILLER_C12_2000	306	YCPXH0629ERK	Transport Aggregates
18R067	Bakersfield	Cab & Chassis, Dump Body	CATERPILLER_C12_2000	410	YCPXH0729ERK	Transport Aggregates
19R014	Gustine	Tractor	CATERPILLER_C12_2000	395	YCPXH0729ERK	Transport Heavy Equip
19R015	Oroville	Tractor	INTERNAT_DT530E_2000	300	YNVXH0530ANA	Transport Heavy Equip
19R016	Gustine	Tractor	CUMMINS_N14-435E_2000	435	YCEXH0855NAE	Transport Heavy Equip

**TABLE 2: Reference Filters Options and Datalog Temperature Profiles**

ID	Engine Family	Verified Filter Options - References Based on Temperature Profile	Temperature Profiles from Datalog				
			Avg.	240° C min.	260° C min.	280° C min.	300° C min.
16R001	2NVXH0444ANC	Cleaire Horizon, HUSS FS-MK	204° C	33.0%	21.4%	11.0%	5.4%
16R025	YNVXH0444ANC	Cleaire Horizon, HUSS FS-MK	189° C	25.7%	20.4%	16.8%	14.4%
17R044	YNVXH0466ANB	Cleaire Longview & Engine Control Sys. Purifilter	204° C	33.3%	29.8%	25.6%	21.1%
18R060	WCEXH0855NAC	Longview & Johnson-Matthey Reformulated CRT	219° C	45.2%	32.0%	17.9%	9.1%
18R062	WCEXH0855NAC	Longview	205° C	30.6%	26.3%	22.8%	19.1%
18R064	YCPXH0729ERK	Longview, EGRT, CRT, Donaldson DPM, Purifilter	272° C	64.4%	57.1%	48.2%	37.7%
18R065	YCPXH0629ERK	Longview, EGRT, CRT, Donaldson DPM, Purifilter	246° C	55.6%	46.5%	34.2%	22.8%
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19R014	YCPXH0729ERK	Longview, EGRT, CRT, Donaldson DPM, Purifilter	249° C	66.1%	56.7%	40.0%	25.1%
19R015	YNVXH0530ANA	Longview, Purifilter	211° C	33.8%	30.5%	27.0%	24.0%
19R016	YCEXH0855NAE	Longview, Johnson-Matthey EGRT, CRT, DPM	231° C	57.9%	42.9%	19.4%	5.1%